

FIG. 1A



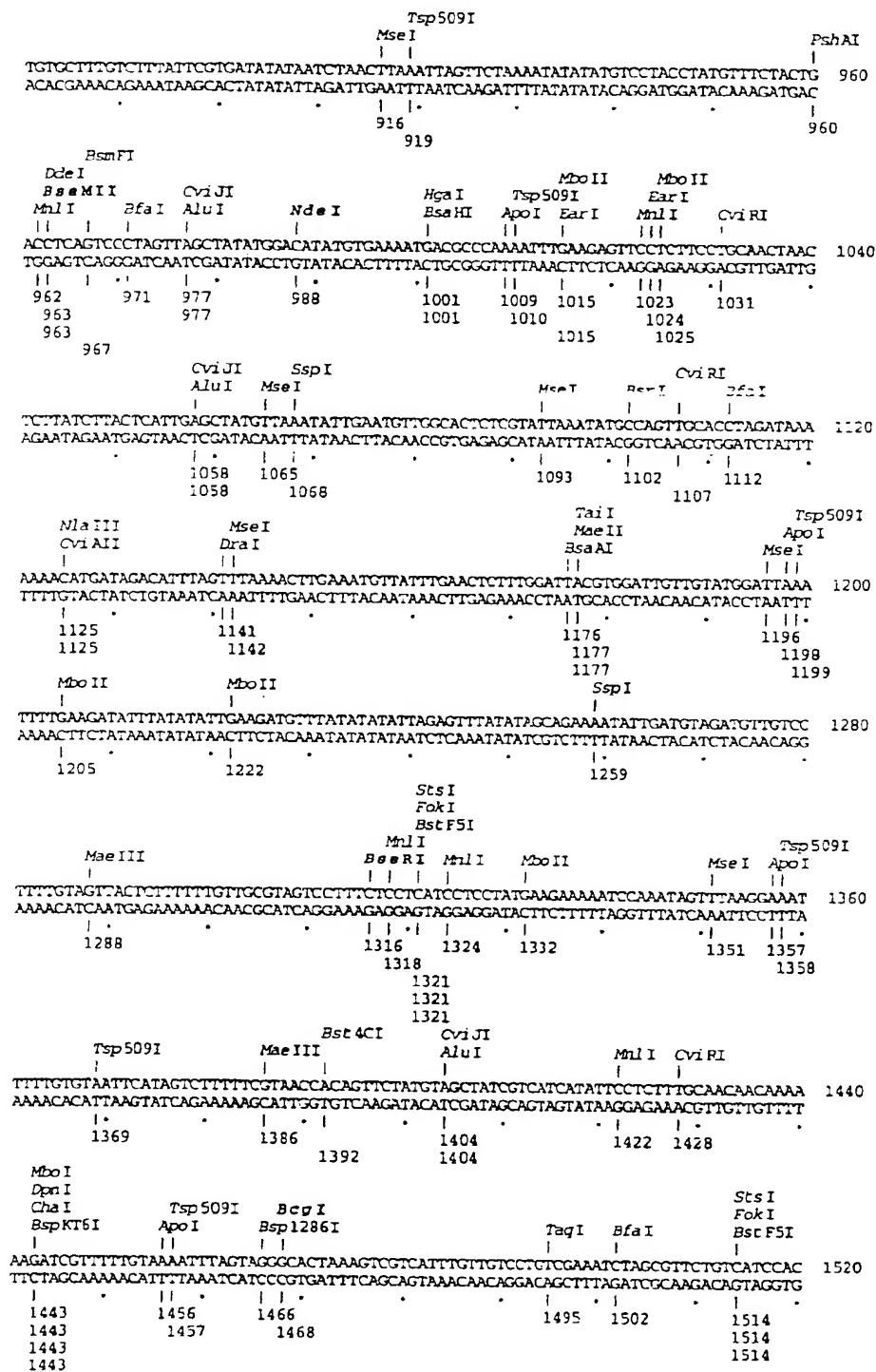


FIG. 1C

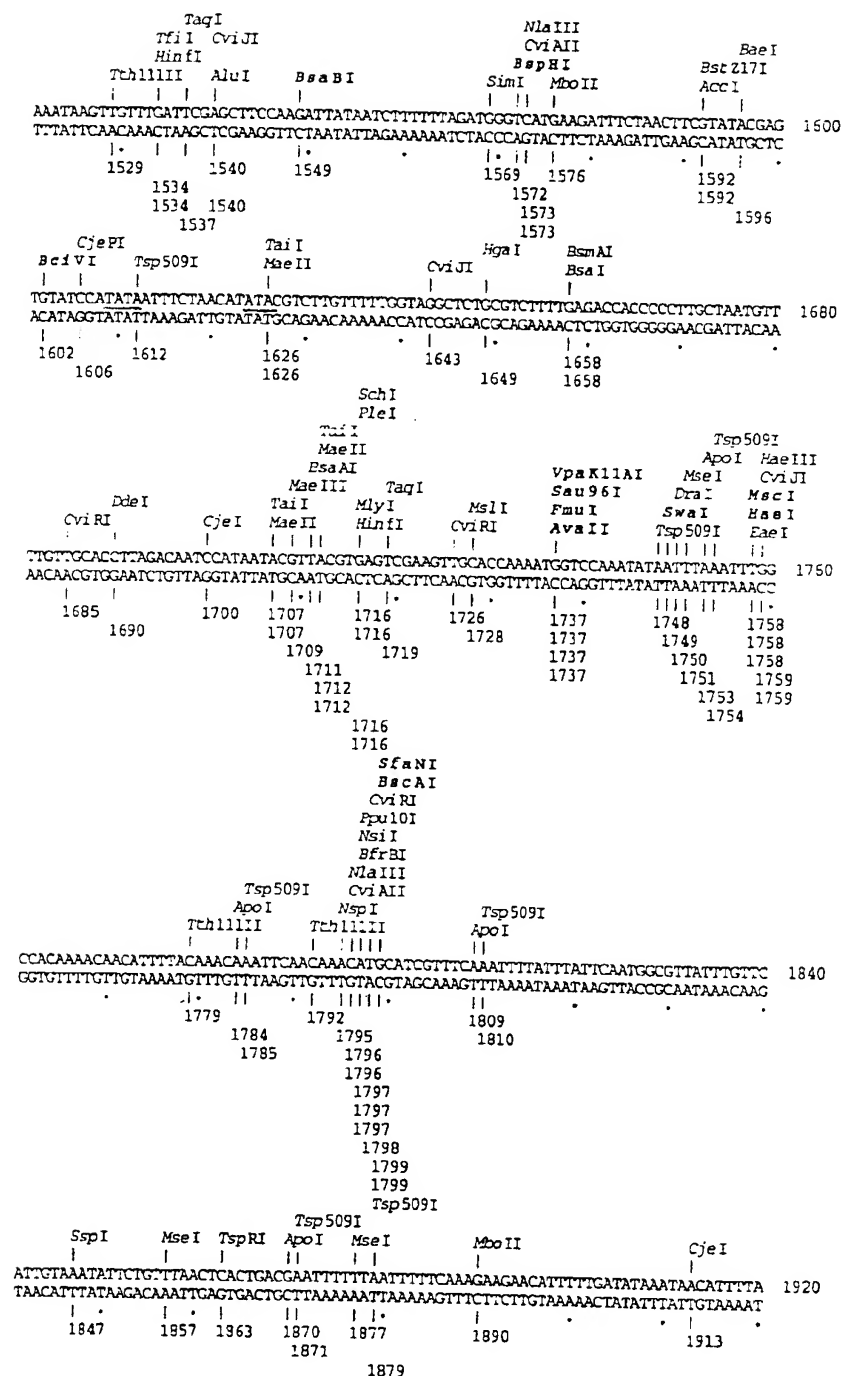


FIG.1D

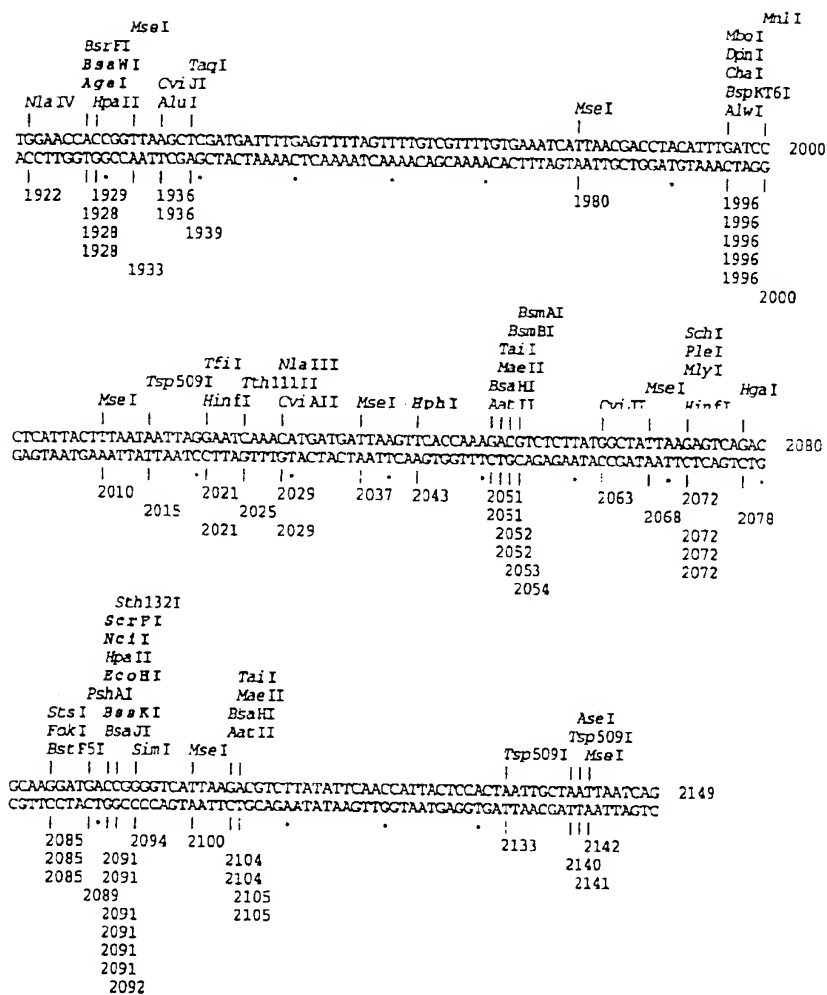


FIG. 1E

a

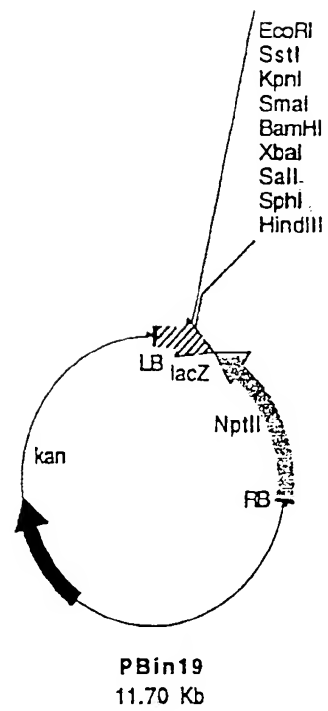
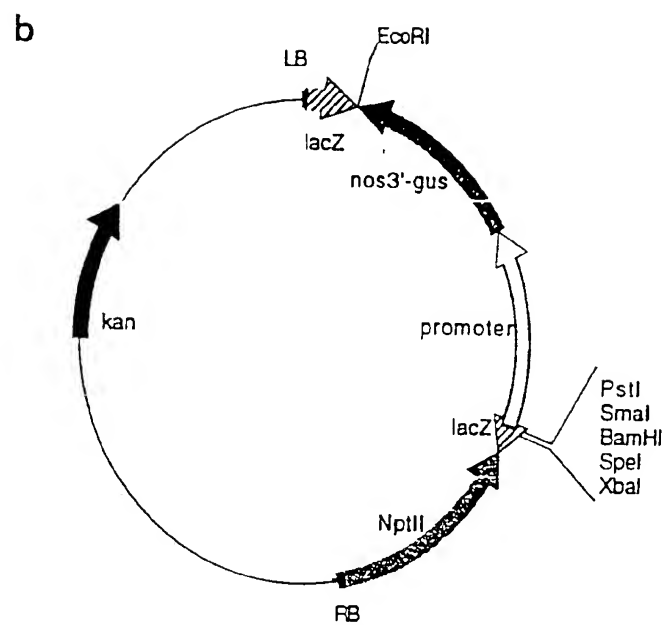


FIG. 2A



PBin19-insert2

16.00 Kb

FIG. 2B

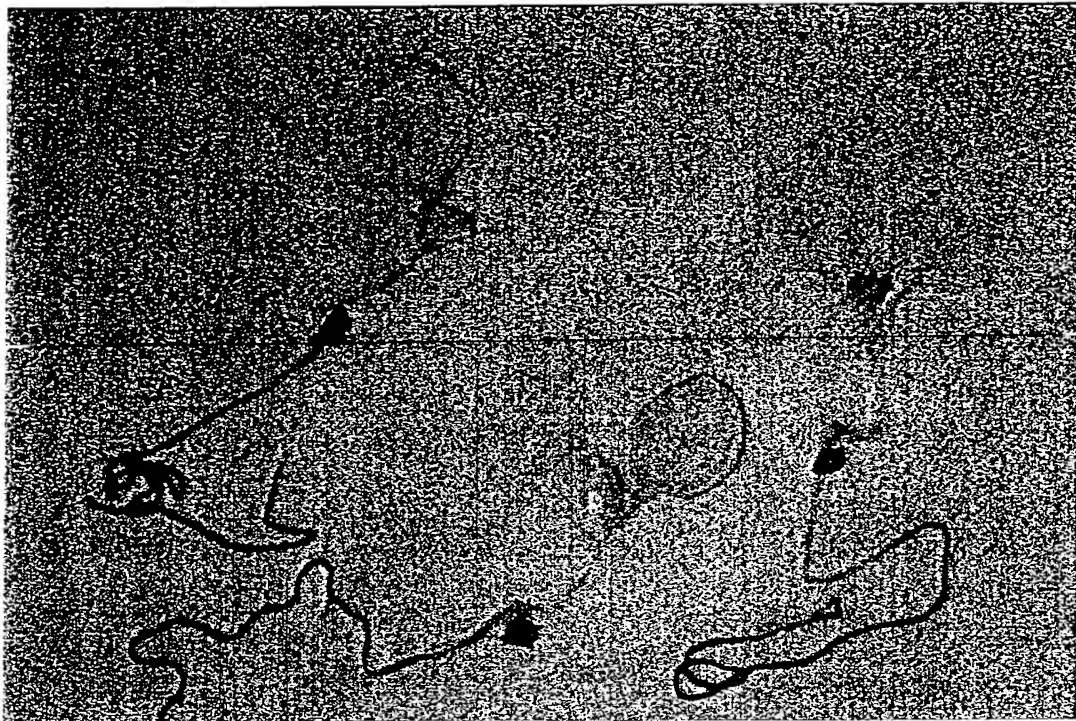


FIG. 3A

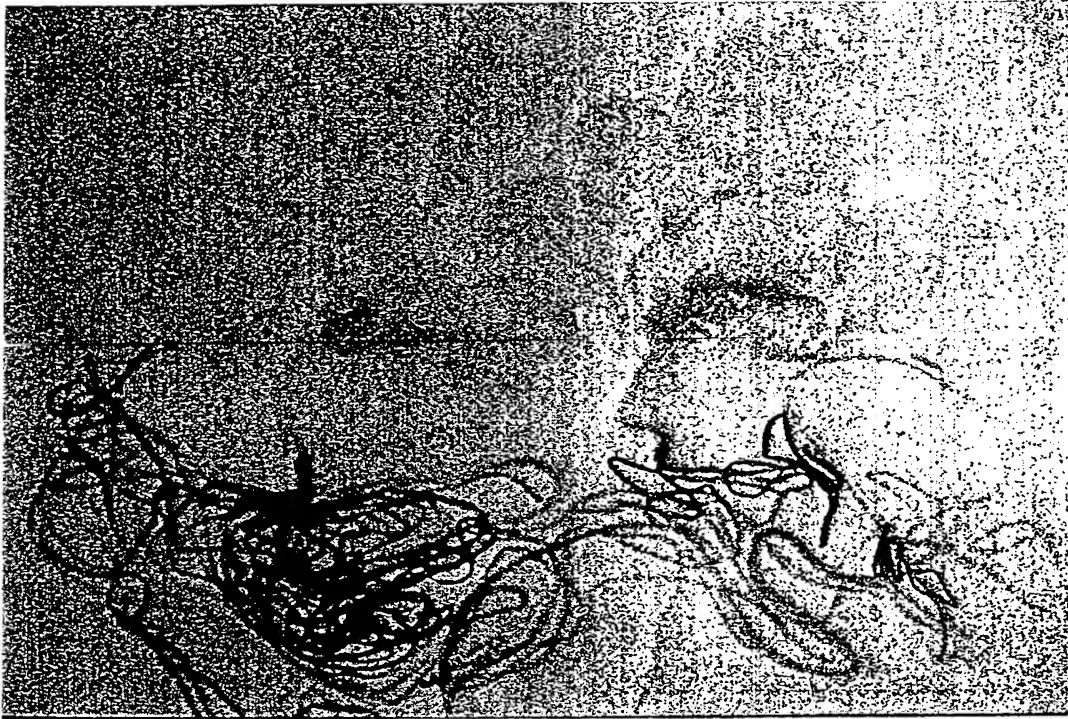


FIG. 3B

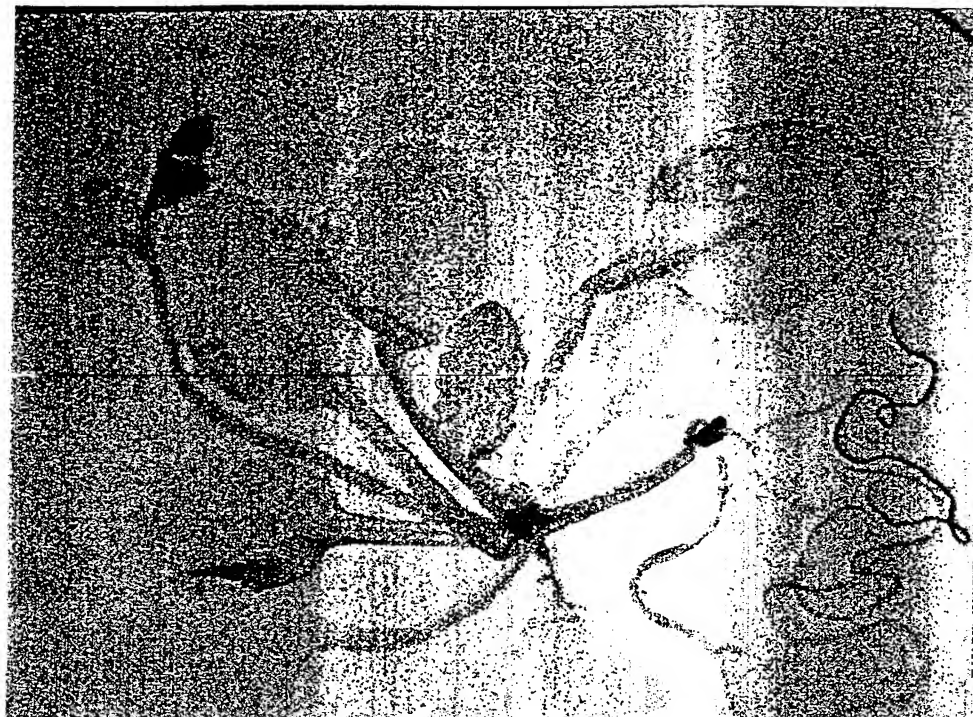


FIG. 3C

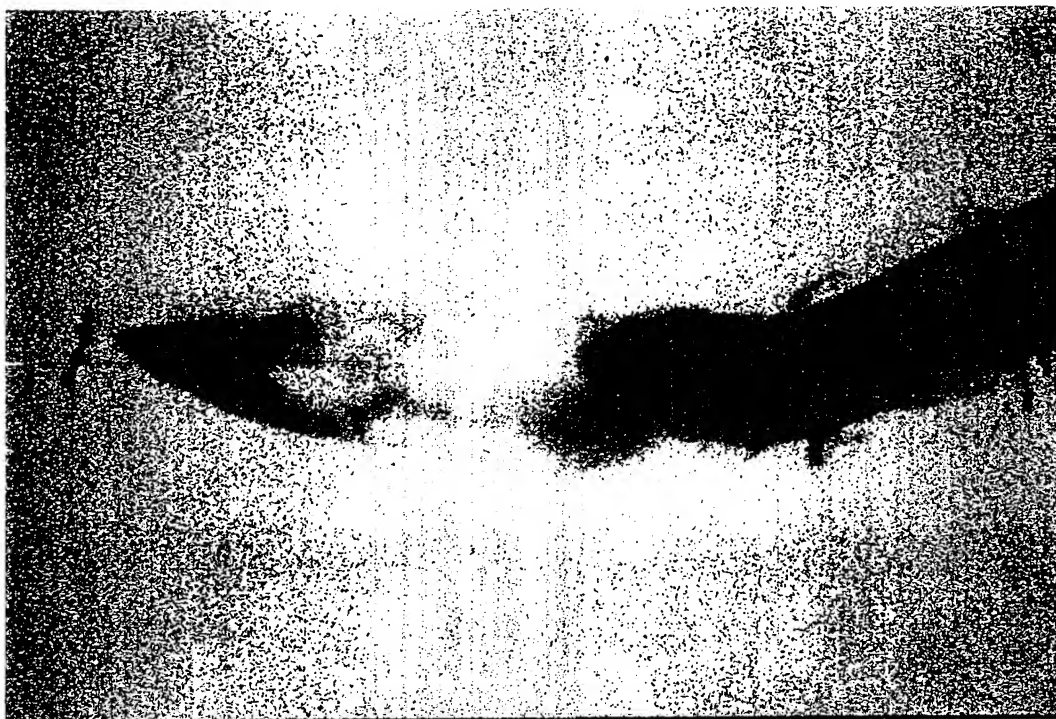


FIG. 3D

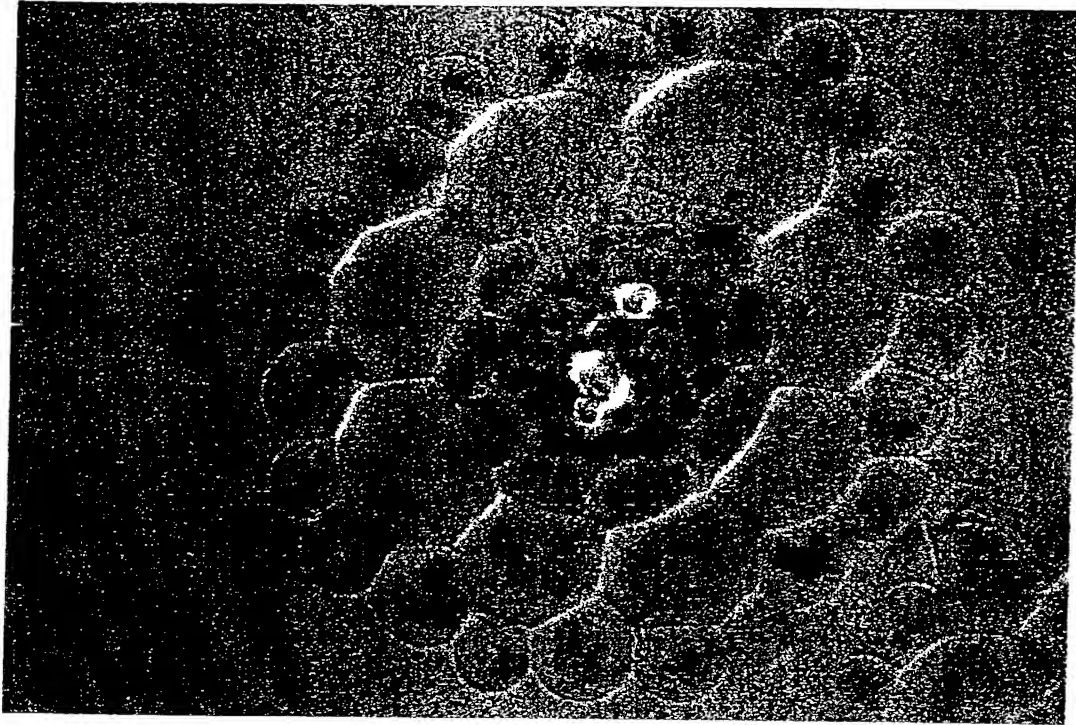


FIG. 4

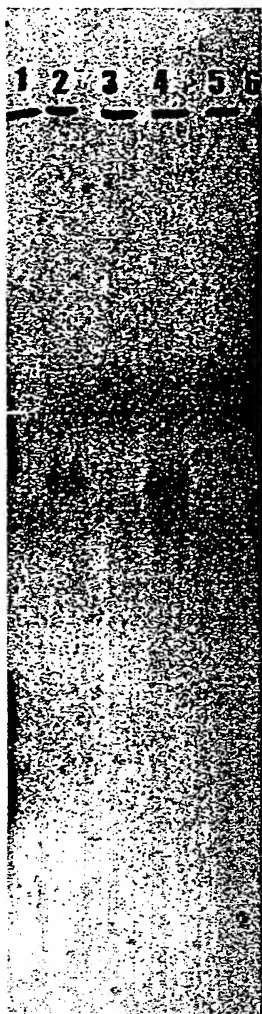


FIG. 5

a

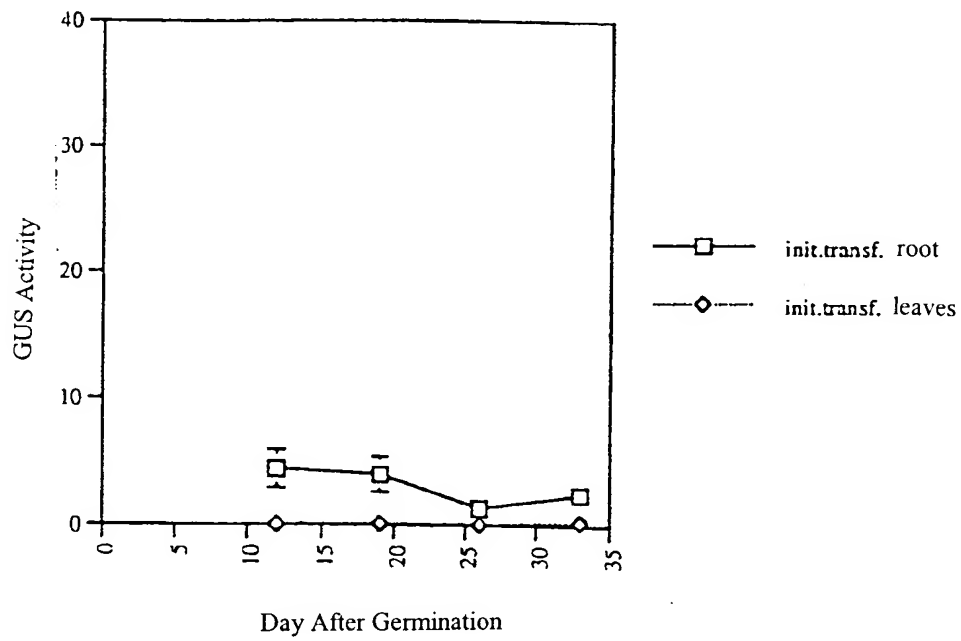


FIG. 6A

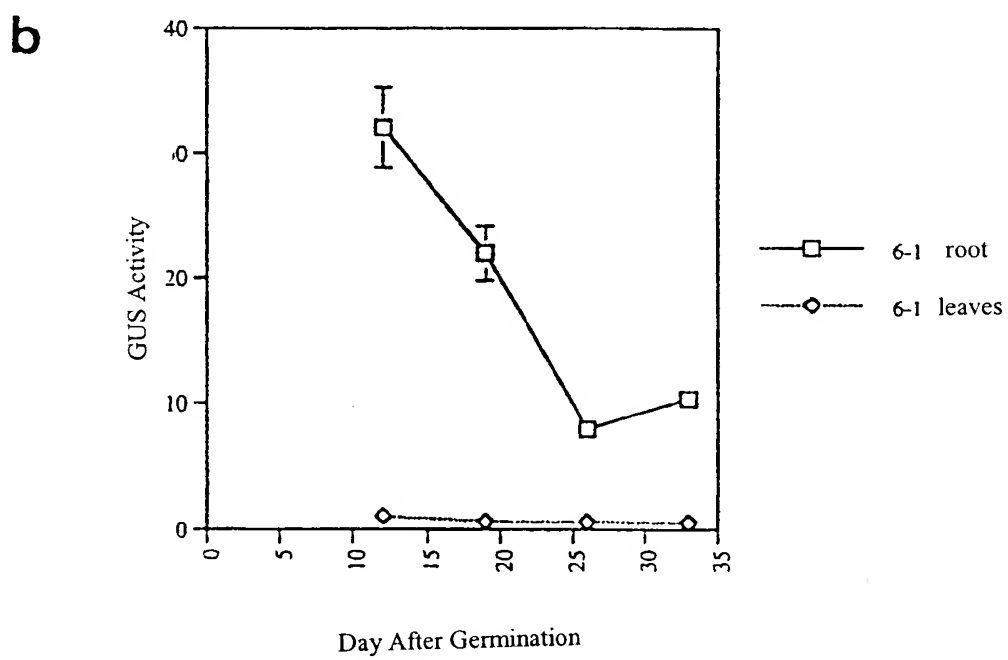


FIG. 6B

C

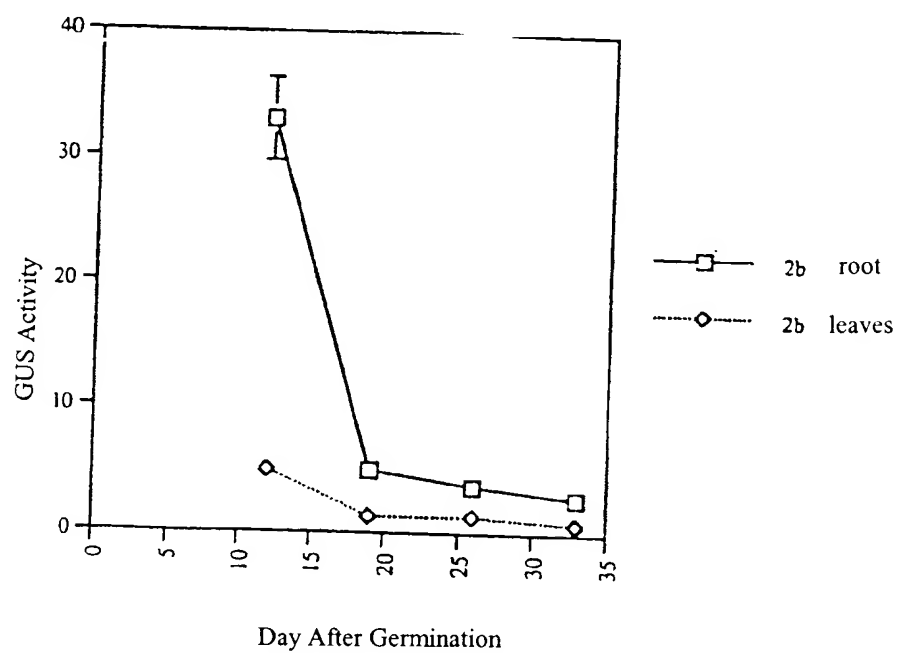


FIG. 6C

a

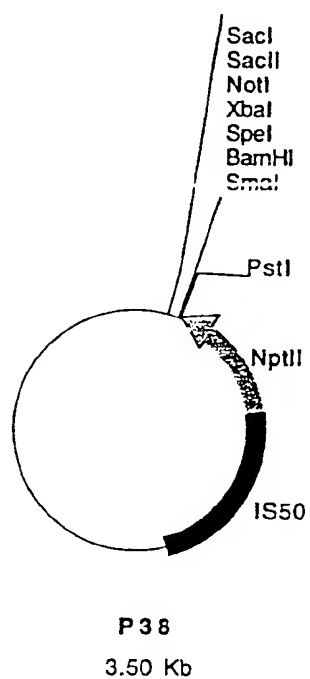


FIG. 7A

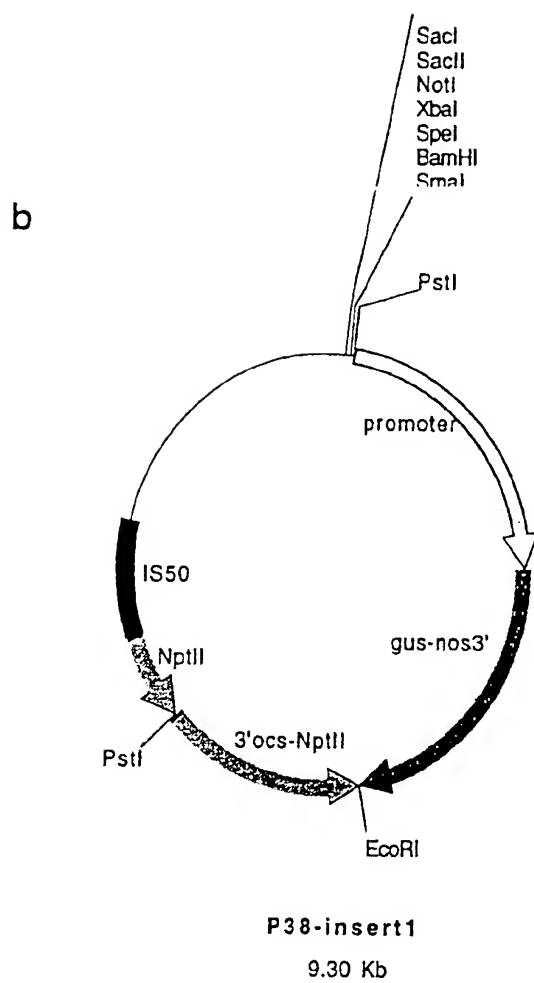


FIG. 7B

pgKB5T-DNA

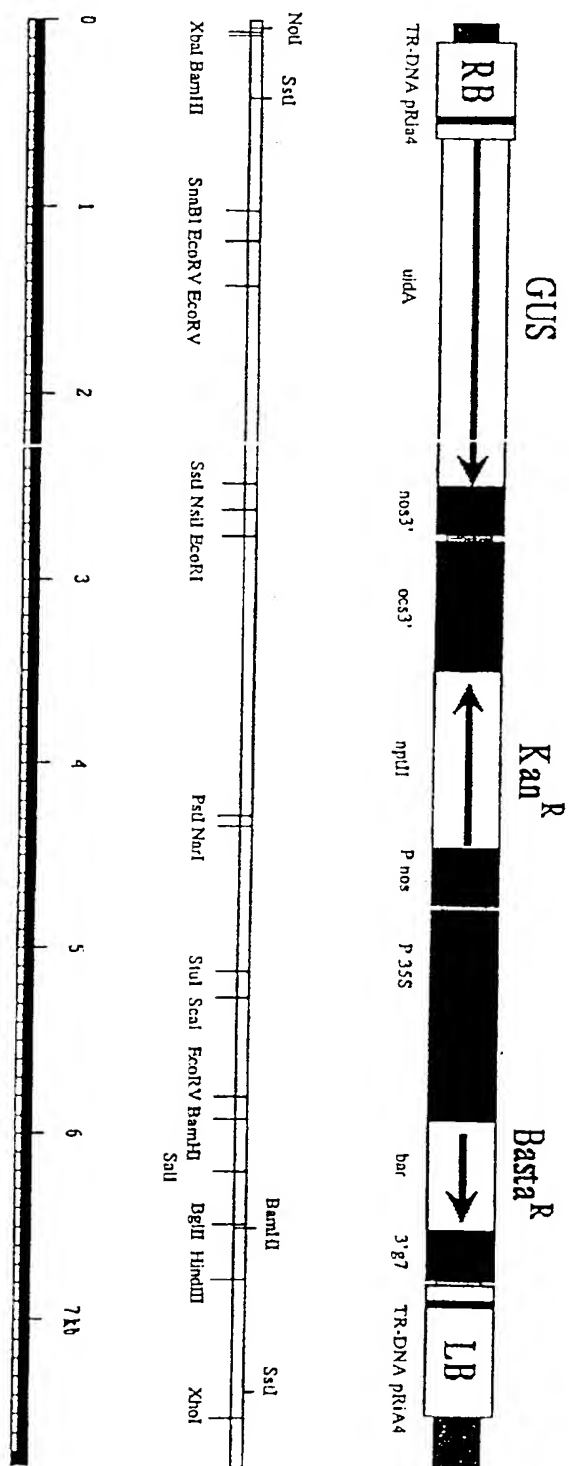


FIG. 8

1 GGAAACAGCT ATGACCATGA TTACGCCAAG CTCGGAATTA ACCCTCACTA AAGGGAACAA
51 AAGCTGGAGC TCCACCGCGG TGGCGGCGC TCTAGAGGAT CCCCCACAG ACAGCTCGGT
121 AGCCCTCGTT CTCTTGGAG TTCTTCGGGA AATGGATCTT TCGATTCCCG ATGATGTCTC
181 TCTTATCTGC TTTGACGACG CCGACTGGAC ATCCGCTATA ACGCCGCCAT TGACCGTGAT
241 TTCCGAACCT GTCAGGGATC TCGCGACGGC TCCCACAGAA GACCTGATCG CCCGCTTAAA
301 GGGCGAGACT TCAGCCCCAC CCAAGGAAAC TCTTCTCCCG GCGGTTCTCA TAGAGCGCGG
361 TTCCGTAAGC GGTTCCTCGG AAGGTCGGGG TTGCATACCG AACTCGCGAA ACGTCGGCGA
421 CTGAGCTCCC GAGGCGCGTT GACAAGATGC CACGAAGGGA ATGGAAGACA GCCGATATTG
481 CAATTGTCTT CGTGGACTGC TTTCGGGACG TAAGGCGCAA GCCATCATCA CCGCGTCCCT
541 AAACAAACAT ACCTCCACAC AAATTTATCT ACCTGACCAC AAGATATATC CTGTACACG
601 ATTTATTAAA CGCTGCATTT GGGGTGCTCA G/TCCCTTATG TTACGTCTCG TAGAAACCCC
661 AACCCGTGAA ATCAAAAAAC TCGACGGCCT GTGGGCATTG AGTCTGGATC GCGAAAACCTG
721 TGAATTTGAT CAGCGTTGGT GGGAAAGCGC GTTACAAGAA AGCCGGGCAA TTGTGTGCGC
781 AGGCAGTTTT AACGATCAGT TCGCCGATGC AGATATTCGT AATTATGCGG GCAACGTCTG
841 GTATCAGCGC GAAGTCTTTA TACCGAAAGG TTGGGCAGGC CAGCGTATCG TCGTGGCTTT
901 CGATGCGGTC ACTCATTACG GCAAAGTGTG GGTCAATAAT CAGGAAGTGA TGGAGCATTA
961 GGGCGGCTAT ACGCCATTTC AAGCCGATGT CACGCGTAT GTTATTCCCG GGAAAAGTGT
1021 ACGTATCACC GTTTGTGTGA ACAACGAACT GAAGTGGCAG ACTATCCCGC CCGGAATGGT
1081 GATTTACCGAC GAAAACGGCA AGAAAAAGCA GTCTTACTTC CATGATTTCCT TTAACATATG
1141 CGGAATCCAT CGCAGCGTAA TGCTCTACAC CACGCGGAAC ACCTGGGTGG ACGATATCAC
1201 CGTGGTGACG CATGTGCGGC AAGACGTGTA CCACGCTCT GTTGACTGGC AGGTGGTGGC
1261 CAATGGTGAT GTCAGCGTTG AACTGCGTGA TCGCGATCAA CAGGTGGTTG CAACTGGACA
1321 AGGCACTAGC GGGACTTTGC AAGTGGTGAA TCCGCACCTC TGGCAACCGG GTGAAGGTGA
1381 TCTCTATGAA CTGTGCGTCA CAGCCAAAAG CCAGACAGAG TGTGATATCT ACCCGCTTCG
1441 CGTGGGCATC CGGTCACTGG CAGTGAAGGG CCAACAGTTC CTGATTAAAC ACAAAACGTT
1501 CTACTTTACT GGTCTTGGTC GTCATGAAGA TCGCGACTTA CGTGGCAAAG GATTTCGATAA
1561 CGTGTCTGAT GTGCACGACC ACGCATTAAT GGACTGGATT GGGGCCAACT CCTACCGTAC
1621 CTGCAATTAC CCTTACGCTG AAGAGATGCT CGACTGGGCA GATGAACATG GCATCGTGGT
1681 GATTGATGAA ACTGCTGCTG TCGGCTTTAA CCTCTCTTTA GGCATTGGTT TCGAAGCGGG
1741 CAACAAGCGG AAAGAAGTGT ACAGCGAAGA GGCAGTCAAC GGGGAACTC AGCAAGCGCA
1801 CTTACAGGCG ATTAAGAGC TGATAGCGCG TGACAAAAAC CACCAAGCG TGGTGATGTG
1861 TCTGGCCTGG AACGAACCGG ATACCGGTCC GCAAGTGCAC GGAATATTT GCGCTGATC
1921 GGAAGCAACG CGTAAACTCG ACCCGACGCG TCCGATCACC TCGCTCAATG TAATGTTCTG
1981 CGACGCTCAC ACCGATACCA TCAGCGATCT CTTTGATGTG CTGTGCTGTA ACCGTTATTA
2041 CGGATGGTAT GTCCAAAGCG GCGATTTGGA AACGGCAGAG AAGGTACTGG AAAAAGAACT
2101 TCTGGCCTGG CAGGAGAAAC TGCAACAGCC GATTATCATC ACCGAATACG GCGTGATATC
2161 GTTAGCCGGG CTGCACTCAA TGTAACCGA CATGTGGAGT GAAGAGTATC AGTGTGCATG
2221 GCTGGATATG TATCACCGCG TCTTTGATCG CGTCAGCGCC GTGTCGGTG AACAGGTATG
2281 GAATTTGCGC GATTTTGCGA CCTCGCAAGG CATATTGCGG GTTGGCGGTA ACAAGAAAGG
2341 GATTTTCACT CGCGACCGCA AACCAGAGTC GCGCGCTTTT CTGCTGCAAA AACGCTGGAC
2401 TGGCATGAAC TTCCGGTGAA AACCAGCA GGGAGGCAAA CAATGAATCA ACAACTCTCC
2461 TGGCGCACCA TCGTCGGCTA CAGCCTCGGT GGGGAATTGA GCTCGATCGT TCAAACATTT
2521 GGCAATAAAG TTCTTTAAGA TTGAATCCTG TTGCGGTCT TCGCATGATT ATCATATAAT
2581 TTCTGTGTGA TTACGTTAAG CATGTAATAA TTAACATGTA ATGCATGACG TTATTTATGA
2641 GATGGGTTTT TATGATTAGA GTCCCGCAAT TATACATTTA ATACGCGATA GAAAACAAAA
2701 TATAGCGCGC AACTAGGAT AAATATTCG CCGCGGTGTC ATCTATGTTA CTAGATCGAA
2761 TT/CGATCGAG GGGATCGAGC CCTGCTGAG CCTCGACATG TTGTGCAAA ATTCGCCCTG
2821 GACCCGCCCA ACGATTTGTC GTCACTGTCA AGGTTTGACC TGCATTCAT TTGGGGCCCA
2881 CATAACCAA AAAAATGCTG CATAATTCTC GGGGACGCAA GTCGGTTACC CGGCCGCGT
2941 CCTCGACCGG GTTGAATGGT GCCCGTAAT TCCGTTAGAG CGGACGGCCA ATACTCAACT
3001 TCAAGGAATC TCACCCATGC GCGCGGCGG GGAACCGGAG TTCCCTTCAG TGAACGTTAT
3061 TAGTTCCCGC CTCGGTGTGT CGTAGATACT AGCCCCCTGG GCCTTTTGAA ATTTGAATAA
3121 GATTTATGTA ATCAGTCTTT TAGGTTTGAC CGGTCTGACC GCTTTTTTTA AAATTGGATT
3181 TGTAATAATA AAACGCAATT GTTTGTTATT GTGGCGCTCT ATCATAGATG TCGCTATAAA
3241 CCTATTCAGC ACAATATATT GTTTTCATTT TAATATTGTA CATATAAGTA GTAGGGTACA
3301 ATCAGTAAAT TGAACGGAGA ATATTTTCA TAAAAATACG ATAGTAACGG GTGATATATT
3361 CATAGAATG AACCGAAACC GCGGTGAAGG ATCTGAGTCA CACATGCTCA GCTTTTTFAC
3421 AACGTGCACA ACAGAATTGA AAGCAAATAT CATGCGATCA TAGGCGTCTC GCATATCTCA
3481 TTAAAGCAGG GGGTGGGCGA AGAACTCCAG CATGAGATCC CCGCGCTGGA GGATCATCCA
3541 GCCGCGTCC CGGAAAACGA TTCCGAAGCC CAACCTTTCA TAGAAGGCGG CGGTGAATC
3601 GAAATCTCGT GATGGCAGGT TGGCGTCCG TTGGTCCGTC ATTTCAAGC CCAGAGTCCC

FIG. 9A

3661 GCTCAGAAGA ACTCGTCAAG AAGGCGATAG AAGGCGATGC GCTGCGAATC GGGAGCGGCG
3721 ATACCGTAAA GCACGAGGAA GCGGTACAGCC CATTGCGCGC CAAGCTCTTC AGCAATATCA
3781 CCGGTAGCCA ACCTATGTG CTGATAGCGG TCCGCCACAC CCAGCCGGCC ACAGTCGATG
3841 AATCCAGAAA AGCGGCCATT TTCCACCATG ATATTGCGCA AGCAGGCAATC GCCATGGGTC
3901 AGCAGCAGAT CCTCGCCGTC GGGCATGCGC GCCTTGAGCC TGGCGAACAG TTCGGCTGGC
3961 GCGAGCCCTT GATGCTCTTC GTCCAGATCA TCCTGATCGA CAAGACCGGC TTCCATCCGA
4021 GTACGTGCTC GCTCGATGCG ATGTTTCGCT TGGTGGTCGA ATGGGCAGGT AGCCCGATCA
4081 AGCGTATGCA GCCGCCGCAT TGCATCAGCC ATGATGGATA CTTTCTCGGC AGGAGCAAGG
4141 TGAGATGACA GGAGATCCTG CCCCAGCACT TCGCCCAATA GCAGCCAGTC CCTTCCCGCT
4201 TCAGTGACAA CGTCGAGCAC AGCTGCGCAA GGAACGCCCG TCGTGGCCAG CCACGATAGC
4261 CGCGCTGCTT CGTCTGCGAG TTCAATTCAGG GCACCGGACA GSTCGGTCTT GACAAAAAGA
4321 ACCGGGCGCC CCTGCGCTGA CAGCCGGAAC ACGGCGGCAT CAGAGCAGCC GATTGTCTGT
4381 TGTGCCAGT CATAGCCGAA TAGCCTCTCC ACCCAAGCGG CCGGAGAACG TCGGTGCAAT
4441 CCATCTTGTT CAATCCACAT GATCATGGGC CGGATCTTTG ATTGAGAGTG AATATGAGAC
4501 TCTAATTGGA TACCGAGGGG AATTATGGA ACGTCAGTGG AGCATTTTTC ACAAGAAATA
4561 TTTGCTAGCT GATAGTGACC TTAGGCGACT TTTGAACGCG CAATAATGGT TTCTGACGTA
4621 TGTGCTTAGC TCATTAAACT CCAGAAACCC GCGGCTGAGT GGCTCCTTCA ATCGTTGCGG
4681 TTCTGTCACT TCCAAACGTA AAACGCTTG TCCCGCGTCA TCGGCGGGGG TCATAACGTG
4741 ACTCCCTTAA TTCTCCGCTG ATGATCCTGT TTCTGTGTG AAATTGTTAT CCGCTCACA
4801 TTCCACACAT TATACGAGCC GGAAGCATAA AGTGTAAAGC CTGGGGTGCC TAATGAGTGA
4861 GCTAACTCAC ATTAATTGCG TTGCGCTCAC TGCCCGCTTT CCAGTCGGGA AACCTGTCTG
4921 GCAGCTGCA TTAATGAATC GGAATTGACG GATCTCCTTT GCCCGGAGA TCACCATGGA
4981 CCACTTTCTC TATCTCTACG ATCTACCAAC AACTTTCCAC CCACAACCTC ACGTACCAT
5041 GATAGTACCA GATAATGAGA AGATTAGCCT CTTCATTTTC AGAAAGAAATG CTGACCCACA
5101 GATGGTTAGA GAGGCTACG CCGCAGGTCT CATCAAGACG ATCTACCCGA GTAATAATCT
5161 CCAGGAGATC AAATACCTTC CCAAGAAAGT TAAAGATGCA GTCAAAAGAT TCAGGACTAA
5221 CTGCATCAAG AACACAGAGA AAGATATATT TCTCAAGATC AGAAGTACTA TTCCAGTATG
5281 GTCGATTCAA GGCTTGCTTC ATAAACCAAG GCAAGTAATA GAGATTGGAG TCTCTAAGAA
5341 AGTAGTTTCT ACTGAATCAA AGGCCATGGA GTCAAAAATT CAGATCGAGG ATCTAACAGA
5401 ACTCGCCGTG AAGACTGGCG AACAGTTTAT ACAGAGTCTT TTACGACTCA ATGACAAGAA
5461 GAAAATCTTC GTCAACATGG TGGAGCACGA CACTCTCGTC TACTCCAAGA ATATCAAAGA
5521 TACAGTCTCA GAAGACCAAA GGGCTATTGA GACTTTTCAA CAAAGGGTAA TATCGGGA
5581 CCTCTCTCGA TTCCATTGCC CAGCTATCTG TCACTTCATC AAAAGGACAG TAGAAAAGGA
5641 AGGTGGCACC TACAAATGCC ATCATGCGA TAAAGGAAAG GCTATCGTTC AAGATGCCTC
5701 TGCGGACAGT GGTCCCAAAG ATGGACCCCC ACCCAGGAGG AGCATCGTGG AAAAAGAAGA
5761 CGTTCCAACC ACGTCTTCAA AGCAAGTGGA TTGATGTGAT ATCTCCACTG ACGTAAAGGA
5821 TGACGCACAA TCCCACTATC CTTCGCAAGA CCTTCTCTCT ATATAAGGAA GTTCATTTCA
5881 TTTGGAGAGG ACACGCTGAA ATCACCAGTC TCTCTCTACA AATCGGATCC ATGAGCCCAG
5941 AACGACGCCC GGCCGACATC CGCCGTGCCA CCGAGGCGGA CATGCCGGCG GTCTGCACCA
6001 TCGTCAACCA CTACATCGAG ACAAGCACGG TCAACTTCCG TACCGAGCCG CAGGAACCCG
6061 AGGAGTGGAC GGACGACCTC GTCCGTCTGC GGGAGCGCTA TCCTTGCTC GTCCCGAGG
6121 TGACCGCGCA GGTGCGCCGC ATCGCTACG CCGGCCCCCTG GAAGGCACGC AACGCTACG
6181 ACTGGACGGC CGAGTCGACC GTGTACGTCT CCCCCCGCA CCAGCGGACG GGACTGGGCT
6241 CCACGCTCTA CACCCACCTG CTGAAGTCCC TGGAGGCACA GGGCTTCAA AGCGTGGTCTG
6301 CTGTCATCGG GCTGCCCAAC GACCCGAGCG TGCGCATGCA CGAGGCGCTC GGATATGCC
6361 CCGCGGCGAT GCTGCGCGCG GCGGCTTCA AGCACGGGAA CTGGCATGAC GTGGGTCTCT
6421 GGCAGCTGGA CTTCAGCCTG CCGGTACCGC CCGTCCCGT CCTGCCCGTC ACCGAGATCT
6481 GATCTCACGC GTCTAGGATC CGATGGATCC CCGATGAGC TAAGCTAGCT ATATCATCAA
6541 TTTATGTATT ACACATAATA TCGCACTCAG TCTTTCACTC ACGCAATGT ACCAGCTGAT
6601 ATAATCAGTT ATTGAAATAT TTCTGAATTT AAATTTGCAT CAATAAATTT ATGTTTTTGC
6661 TTGGACTATA ATACCTGACT TGTTATTTTA TCAATAAATA TTTAAACTAT ATTTCTTTCA
6721 AGATGGGAAT TAACATCTAC AAATTGCCCT TTCTTATCGA CCATGTACAT CAAGCTTATC
6781 GATACCGTCG GCTATGGTA ATAGGACACT GGGATTCTGC TTGGACAAC TTTCTTCTCA
6841 TCTAAGCGTA GACAACCTTC AACTGGAAAC GGGCCGACT CCAGGGCGTG TGCCAGGTGC
6901 CCACGGAATA GTTTTGGCCA GACCTTGAA AATCCGATTC AGTACAATCG ATTGCCCTCA
6961 TTTTACGTT GGCATATATC CTGCCAAACA GCCAACAACG CCGGTGCGGT GAATAGGAAA
7021 GCGTTTGAGT TGCTTGCTCA TATCGTGACG GTTGACAGCA CAGGTTGACC GCTTGATGAT
7081 TCGTACGAGC CGCCAAACAT TGGCTGTCTG AATGATATAC CATGTCAGAA CAGCAATCCG
7141 ATGGGCGGGA AAGCATTATC TTAATGCACA CGGAAATGGC GCGTGGTGG GTGGAATACA
7201 CCGACATAGA GGCCGTAAGT TCTGCTAGGT CATGCTCGGA AAGGTGGCAG CAGGCGCACG
7261 GCTGTGGCCT CTGTCTCTTT CAGCGTGAAA TCGGTGTTGA AAGAATAATC GAAGAGAGCG
7321 TCCGCTCGAC ACCTTCAATT ATGCCGATTT GATCGATGAA CTGATCGAGC TCTGAAATCG
7381 AAGGGGCTTC GATAATCGCA ATCAAATCAA AAGTGCCACT CACAGAATGA AGAGCGATAA
7441 CCGCGGTGAC CTTCCTCAAG GAGGCGGTCA CCTGTGAAAG CGCCTTCGTA ATGGTGATCA
7501 GAATATGGGC TCGAACCAAG CTCGAGACCT CGAGGGGGGG CCGGTACCC AATTTCGCCCT
7561 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTTAC

FIG. 9B

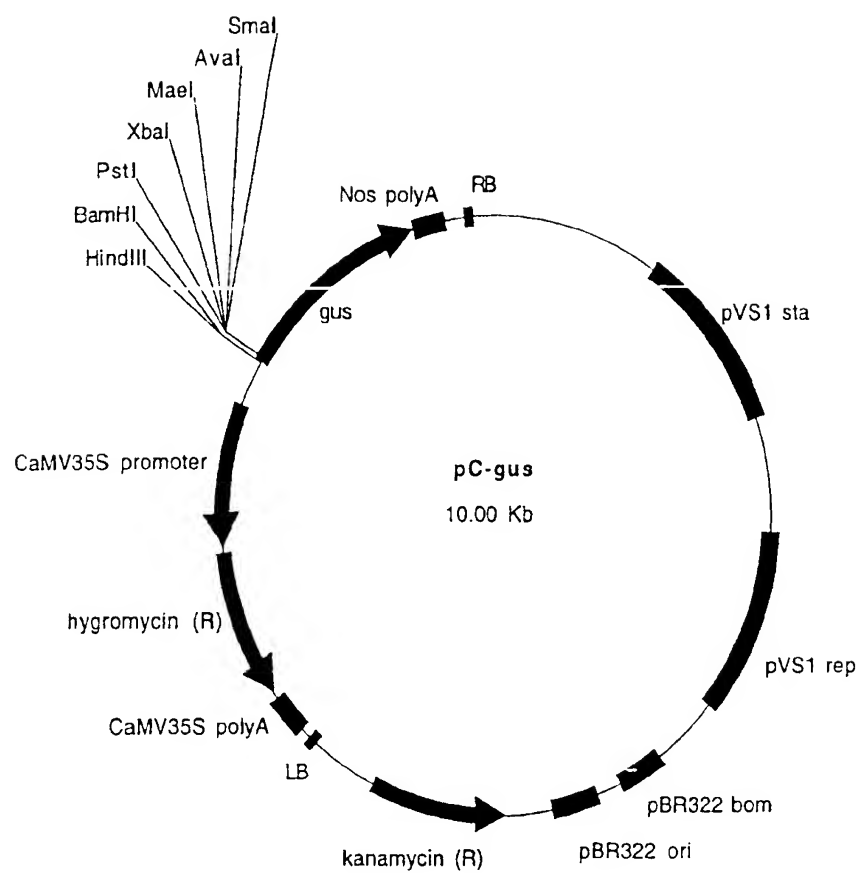


FIG. 10